## **EXHIBIT 4**

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 4,818,816

: April 4, 1989 DATED

Page 1 of 6

INVENTOR(S) : Petitou, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The following should be added to the title page under Foreign Application Priority Data

PCT

FOREIGN/PCT	APPLICATIONS	FRANCE FRANCE FRANCE FRANCE FRANCE FRANCE FRANCE FRANCE FRANCE FRANCE FRANCE	8108472 8200621 8201575 8202526 8209392 8210891 8211679 8213804 8215803 8215804	04/28/81 01/15/82 02/01/82 02/16/82 05/28/82 05/22/82 06/22/82 06/22/82 06/20/82 09/20/82
		FRANCE FRANCE PCT	8218003 PCT/FR82/0076	10/27/82 04/28/82

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 4,818,816

DATED : April 4, 1989

Page. 2 of 6

INVENTOR(S): Petitou, et al.

It is certified that error appears in the above—identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 13, line 19, at Col. 73, line 58 should read:

"3. an orthoester formed between carbon 1 and carbon 2 of a uronic acid unit."

Claim 29, line 19, at Col. 77, line 46 should read:

"3. an orthoester formed between carbon 1 and carbon 2 of a uronic acid unit."

Claim 49, line 27, at Col. 85, line 18 should read:

"3. an orthoester formed between carbon 1 and carbon 2 of a uronic acid unit."

Claim 14, line 18, at Col. 73, line 9, should read:

"4. ∞ (NH) CC1<sub>3</sub>."

Claim 30, line 18, at Col. 78, line 3, should read:

"4.  $\infty$  (NH)  $\infty$ 1<sub>3</sub>."

Claim 48, line 25 at Col. 84, line 34, should read:

"2. O-lower imidoyl"

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 4,818,816

DATED : April 4, 1989

Page 3 of 6

INVENTOR(S) : Petitou, et al.

It is certified that error appears in the above—identified patent and that said Letters Patent is hereby corrected as shown below:

At Col. 80, compounds I - IV should be:

ш

rv

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 4,818,816

DATED : April 4, 1989

Page 4 of 6

INVENTOR(S) : Petitou, et al.

It is certified that error appears in the above—identified patent and that said Letters Patent is hereby corrected as shown below:

At Col. 81, compounds V - VIII should be:

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VI

VII

VIII

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 4,818,816

DATED : April 4, 1989

Page 5 of 6

INVENTOR(S) : Petitou, et al.

It is certified that error appears in the above—identified patent and that said Letters Patent is hereby corrected as shown below:

At Col. 81, compounds IX - XII should be:

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 4,818,816

DATED : April 4, 1989

Page 6 of 6

INVENTOR(S): Petitou, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Signed and Sealed this

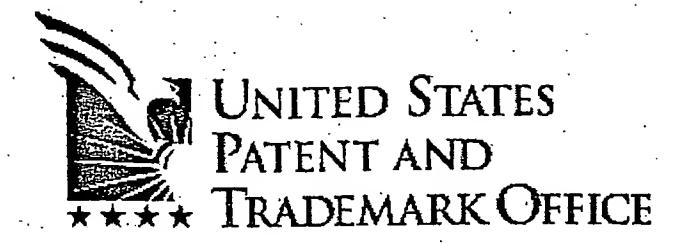
Seventeenth Day of December, 1991

Attest:

HARRY E MANRECK ID

Commissioner of Patents and Trademarks

## **EXHIBIT 5**



Patent Maint	enance/Fees	12/11/2001
Patent Number	4818816 <b>Issued</b> 04/04/1989 <b>Application</b> 071155 <b>Number</b>	593 <b>Filed</b> 10/26/1987
Status	4th, 8th and 12th year fees paid	Small Entity NO
Window Opens	Surchg Due	Expiration
Fee Amt Due	Surchg Amt Due	Total Amt Due
Fee Code		
Surchg Code		
Title	PROCESS FOR THE ORGANIC SYNTHESIS OF OLIGOSAG	CCHARIDES AND DERIVATIVES

#### Address for Fee Purpose

SETH H. JACOBS
DAVIS HOXIE FAITHFULL & HAPGOOD
45 ROCKEFELLER PLAZA
NEW YORK NY 10111

## Most Recent Significant Events (up to 7)

2000/09/21 Payment of Maintenance Fee, 12th Year, Large Entity.
1996/08/13 Payment of Maintenance Fee, 8th Year, Large Entity.
1992/11/04 Payor Number Assigned.
1992/09/23 Payment of Maintenance Fee, 4th Year, Large Entity.
End of Maintenance History

New Query

Print

## MAINTENANCE FEE STATEMENT

The data shown below is from the records of the Patent and Trademark Office. If the maintenance fees and any necessary surcharges have been timely paid for the patents listed below, the notation "PAID" will appear in column 10, "status" below.

If a maintenance fee payment is defective, the reason is indicated by code in column 10, "status" below. An explanation of the codes appears on the reverse of the Maintenance Fee Statement. TIMELY CORRECTION IS REQUIRED IN ORDER TO AVOID EXPIRATION OF THE PATENT. NOTE 37 CFR 1.377. THE PAYMENT(S) WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION. IF PAYMENT OR CORRECTION IS SUBMITTED DURING THE GRACE PERIOD, A SURCHARGE IS ALSO REQUIRED. NOTE 37 CFR 1.20(k) and (i).

If the statement of small entity status is defective the reason is indicated below in column 10 for the related patent number. THE STATEMENT OF SMALL ENTITY STATUS WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION.

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•			07/115,593		10/26/67	04 40	FIGURE

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If the "status" column for a patent number listed above does not indicate "PAID" a code or an asterisk (\*) will appear in the "status" column. Where an asterisk (\*) appears, the codes are set out below by the related item number. An explanation of the codes indicated in the "status" column and as set out below by the related item number appears on the reverse of the maintenance fee statement.

TIM ATTY SKI NEED NUMBER

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DIRECT THE RESPONSE TOGETHER WITH ANY QUESTIONS ABOUT THIS NOTICE TO: COMMISSIONER OF PATENTS AND TRADEMARKS, BOX M. FEE, WASHINGTON, DC 20231



U845/08001 UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D. C. 20231

PAYOR NUMBER 000761

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SETH H. JACOBS DAVIS HOXIE FAITHFULL & HOPGOOD 45 ROCKEFELLER PLAZA NEW YORK, NY 10111

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PRACTICE SYSTEMS

## MAINTENANCE FEE STATEMENT

The data shown below is from the records of the Patent and Trademark Office. If the maintenance fees and any necessary surcharges have been timely paid for the patents listed below, the notation "PAID" will appear in column 10, "status" below.

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If the statement of small entity status is defective the reason is indicated below in column 10 for the related patent number. THE STATEMENT OF SMALL ENTITY STATUS WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION.

PATENT FILE SERIAL PAY SML PATENT TM FEE FEE SUR DATE DATE BR NUMBER YR ENT STA NUMBER CDE AMOUNT CHARGE 04/04/89 10/26/87 07/115,593 08 NO FA: 4,818,816 184 1990

> " No Docketing Required " Reviewed By Praction Systems Reviewed By Billing Socretary Initiale:

## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

000761

M75N9

SETH H. JACOBS DAVIS HOXIE FAITHFULL & HOPGOOD 45 ROCKEFELLER PLAZA NEW YORK NY 10111

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## MAINTENANCE FEE STATEMENT

The data shown below is from the records of the Patent and Trademark Office. If the maintenance fees and any necessary surcharges have been timely paid for the patents listed below, the notation "PAID" will appear in column 11, "STAT" below.

If a maintenance fee payment is defective, the reason is indicated by code in column 11, "STAT" below. TIMELY CORRECTION IS REQUIRED IN ORDER TO AVOID EXPIRATION OF THE PATENT. NOTE 37 CFR 1.377. THE PAYMENT(S) WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION. IF PAYMENT OR CORRECTION IS SUBMITTED DURING THE GRACE PERIOD, A SURCHARGE IS ALSO REQUIRED. NOTE 37 CFR 1.20(h).

If the statement of small entity status is defective the reason is indicated below in column 10 for the related patent number. THE STATEMENT OF SMALL ENTITY STATUS WILL BE ENTERED UPON RECEIPT OF ACCEPTABLE CORRECTION.

ITEM	PATENT	FEE	FEE SUR	SERIAL	PATENT	FILE	PAY SML	STAT
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٦	4.818.816	165	2910	07/115,593	04/04/89	10/26/87	12 NO	PAID

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DIRECT THE RESPONSE TOGETHER WITH ANY QUESTIONS ABOUT THIS NOTICE TO: COMMISIONER OF PATENTS AND TRADEMARKS, BOX M. FEE, WASHINGTON, D.C. 20231 01-37-02

Attorney Docket No. 80451

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re patent of: Maurice Petitou, et al.

Patent No.: 4,818,816

Granted: April 4, 1989

Serial No. 115,593

Filing Date: October 26, 1987

For: PROCESS FOR THE ORGANIC SYNTHESIS OF OLIGOSACCHARIDES AND DERIVATIVES

**THEREOF** 

Commissioner for Patents **Box Patent Extension** Washington, D.C. 20231

**CERTIFICATE UNDER 37 C.F.R. 1.10(b** 

Express Mail Label Number: <u>FI.676470495US</u>

Date of Deposit:

I hereby certify that this paper is being deposited with the United Stated Postal Service "Express Mail Post Office to Addressee" Service on the indicated above and is addressed to:

Commissioner for Patents, Box Patent Extension,

Washington, DC 20231

Name

Date

TRANSMITTAL OF APPLICATION FOR EXTENSION OF PATENT TERM UNDER 35 U.S.C. §156 AND 37 C.F.R. §1.740

Dear Sir:

Transmitted herewith in triplicate is an application for extension of term of the above-identified patent pursuant to 35 U.S.C. §156 and 37 C.F.R. §1.740.

Also enclosed are a Power of Attorney by the assignee, a Certificate under 37 C.F.R. §3.73(b), and a copy of the Subdelegation of Powers by the assignee together with an English translation thereof.

The Commissioner is hereby authorized to charge the fee of \$1,120 under 37 C.F.R. §1.20(j) and any other fee which may be required for receiving and acting upon the accompanying application for extension to Deposit Account No. 19-0091. A duplicate copy of this letter is enclosed.

Address:

Sanofi-Synthelabo Inc. 9 Great Valley Parkway Malvern, PA 19355

Telephone: (610) 889-6338 Facsimile: (610) 889-8799

Respectfully submitted,

Paul E. Dupont Agent for Applicant

Registration No. 27,438

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FEB 1 4 2002

OFFICE OF PETITIONS

Attorney Docket No. 80451

JAN 2 9 2002 I

## THE UNITED STATES PATENT AND TRADEMARK OFFICE

In margarent of: Maurice Petitou et al.

Patent No.: 4,818,816

Granted: April 4, 1989

Serial No. 115,593

Filing Date: October 26, 1987

For: PROCESS FOR THE ORGANIC SYNTHESIS OF OLIGOSACCHARIDES AND DERIVATIVES THEREOF

Assistant Commissioner of Patents Box Patent Extension Washington, DC 20231

Dear Sir:

## CERTIFICATE UNDER 37 C.F.R. 1.J0(b)

Express Mail Label	Number:	EL6/64/04950S	
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I hereby certify that this paper is being deposited with the United Stated Postal Service "Express Mail Post Office to Addressee" Service on the indicated above and is addressed to: Commissioner for Patents, Box Patent Extension,

Washington, DC 20231

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Date

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## POWER OF ATTORNEY

SANOFI-SYNTHELABO of 174, Avenue de France, 75013 Paris, France, the assignee of the entire interest in the above-identified patent, as evidenced by the chain of title set forth in the Certificate under 37 C.F.R. § 3.73(b) submitted herewith, hereby revokes all powers of attorney previously given and appoints Paul E. Dupont (Reg. No. 27,438) and Michael D. Alexander (Reg. No. 36,080), as its attorneys and/or agents to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Address correspondence to:

Paul E. Dupont Sanofi-Synthelabo Inc. 9 Great Valley Parkway Malvern, PA 19355

Attorney Docket No. 80451

Direct telephone calls and faxes to:

Tel.: 610-889-6338 Fax: 610-889-8799

SANOFI-SYNTHELABO

Date: 18 Jan 02

John M. Spinnato

Attorney Docket No. 80451

JAN 2 9 2002

## THE UNITED STATES PATENT AND TRADEMARK OFFICE

fare patent of: Maurice Petitou et al.

Patent No.: 4,818,816

Granted: April 4, 1989

Serial No. 115,593

Filing Date: October 26, 1987

For: PROCESS FOR THE ORGANIC SYNTHESIS OF OLIGOSACCHARIDES AND DERIVATIVES THEREOF

CERTIFICATE UNDER 37 C.F.R. 1.10(b)

Express Mail Label Number: EL676470495US

Date of Deposit: 1-29-02

I hereby certify that this paper is being deposited with the United Stated Postal Service "Express Mail Post Office to Addressee" Service on the indicated above and is addressed to: Commissioner for Patents, Box Patent Extension.

Washington, DC 20231

Name

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Box Patent Extension Washington, DC 20231

Assistant Commissioner of Patents

Dear Sir:

## Certificate under 37 C.F.R. § 3.73(b)

SANOFI-SYNTHELABO, a société anonyme of France, certifies that it is the assignce of the entire right, title, and interest in the above-identified patent by virtue of a chain of title from the inventors to the current assignee as shown below:

- 1. An assignment from the inventors Maurice Petitou, Jean-Claude Jacquinet, Pierre Sinay, Jean Choay, Jean-Claude Lormeau, and Mahmoud Nassr, to Choay, S.A. recorded in the Patent and Trademark Office at Reel 4954 Frame 0925 and Reel 5031 Frame 0859.
- 2. A merger of Choay, S.A. into Sanofi S.A. recorded in the Patent and Trademark Office at Reel 011641 Frame 0937-0942.
- 3. A merger of Sanofi S.A. into Sanofi-Synthelabo recorded at Reel 011641 Frame 0949-0961.
- 4. An assignment from Sanofi-Synthelabo to DROPIC recorded in the Patent and Trademark Office at Reel 011641 Frame 0547-0549.
- 5. An assignment from DROPIC to SANOFI-SYNTHELABO, a copy of which is attached hereto.

Attorney Docket No: 80451

The undersigned has reviewed all the documents in the chain of title shown above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18, of the United States. Code, and that such willful false statements may jeopardize the validity of the patent.

Date: 18 Jan 02

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#### **ASSIGNMENT**

WHEREAS, SOCIETE CIVILE DE GESTION DE DROITS DE PROPRIETE INDUSTRIELLE CHOAY "DROPIC", of 36 rue des Sablons, 75116, Paris France, a "société civile", is the sole and exclusive owner, by assignment, of the Letters Patent of the United States of America No. 4,818,816, issued on April 4, 1989,

WHEREAS, SANOFI-SYNTHELABO of 174, Avenue de France, 75013

Paris, France, a company organized and existing under the laws of the Country of

France (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire

right, title and interest in and to said Letters Patent;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other valuable consideration, the receipt of which is hereby acknowledged, SOCIETE CIVILE DE GESTION DE DROITS DE PROPRIETE INDUSTRIELLE CHOAY "DROPIC" by these presents do sell, assign, and transfer unto ASSIGNEE the entire right, title and interest for the territory of the United States of America, in and to the aforesaid Letters Patent and the invention described therein, and any reissue or reissues of said Letters Patent to the full end of the term for which said Letters Patent have been granted or reissues may be granted, said invention and Letters Patent to be held and enjoyed by the ASSIGNEE, and for the use and behoof of said ASSIGNEE, and for the use and behoof of their successors, assigns or other legal representatives, and for claims for damage by

reasons of infringement past and present, as fully and entirely as the same would have been held by us had this Assignment and sale not been made.

IN TESTIMONY WHEREOF, SOCIETE CIVILE DE GESTION DE DROITS DE PROPRIETE INDUSTRIELLE CHOAY "DROPIC" has caused these presents to be signed by its officer thereunto duly authorized.

SOCIETE CIVILE DE GESTION DE DROITS DE PROPRIETE INDUSTRIELLE CHOAY "DROPIC"

Date: <u>January</u> 15, 2002

Title:

Reue WillAiME

General Manager\_

## **SANOFI-SYNTHELABO**

Société Anonyme au capital de 1 461 174 016 € Siège social : 174, avenue de France 75013 PARIS R.C.S. PARIS B 395 030 844

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## SUBDELEGATION DE POUVOIRS

Monsieur Jean-Pierre KERJOUAN demeurant 3, avenue Boudon 75116 PARIS

General Counsel et Directeur Juridique, dûment habilité à l'effet des présentes par délégation de pouvoirs en date du 19 mai 1999 de Monsieur Jean-François DEHECQ, Président du conseil d'administration de la société SANOFI-SYNTHELABO, société anonyme au capital de 1.461 174 016 €, ayant son siège social 174, avenue de France 75013 PARIS, immatriculée au Registre du Commerce et des Sociétés de Paris sous le numéro 395 030 844

subdélègue à John SPINNATO, Senior Vice President and General Counsel de SANOFI INC (Etats-Unis), afin qu'il en fasse usage au nom et pour le compte de la société SANOFI-SYNTHELABO, les pouvoirs de signer tout document nécessaire au dépôt, à la conservation et aux autres procédures relatives aux marques et, d'une façon générale, à réaliser toutes opérations concernant la Propriété Industrielle et, généralement, faire le nécessaire.

Fait à PARIS, le Saint 1999

John SPINNATO

Jean-Pierre KERJOUAN

# SANOFI-SYNTHELABO SANOFI-SYNTHELABO FIRADENE A corporation with € 1,461,174,016 in capital Headquarters: 174, avenue de France 75013 PARIS Paris Trade Register No. B 395 030 844

#### SUBDELEGATION OF POWERS

Jean-Pierre Kerjouan, residing at 3, avenue Boudon 75116 PARIS,

General Counsel and *Directeur Juridique*, duly authorized to sign this document by the delegation of powers dated May 19, 1999 from Jean-François Dehecq, President of the Board of Directors of SANOFI-SYNTHELABO, a corporation with € 1,461,174,016 in capital, headquartered at 174, avenue de France 75013 Paris, and registered in the Paris Trade Register as number 395 030 844,

subdelegates to John Spinnato, Senior Vice President and General Counsel for SANOFI INC (United States), for him to use in the name of and on behalf of SANOFI-SYNTHELABO, the powers to sign any document necessary for filing, retaining, and executing any other procedures related to trademarks, and in general, to performing any operations concerning patent rights and generally doing what is necessary.

Executed in Paris on August 5, 1999

[signed]

John Spinnato

[signed]

Jean-Pierre Kerjouan

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